



PATENT ABSTRACTS OF JAPAN

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(54) PRODUCTION OF MASTER DISK FOR OPTICAL DISK

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(57) Abstract:

PURPOSE: To obtain such a production method of an optical master disk that a phase transition film itself in which a pit pattern is formed by thermal recording has a large difference in the etching rate between the part where the phase transition is caused and the part where no phase transition is caused, that a large selection rate can be obtained also for etching of a masking film, and that as a result, a uniform pit pattern with good reproducibility can be obtained.

CONSTITUTION: The production method of an optical master disk includes the following processes. A phase transition film 3 is formed on a masking film 2 formed on a substrate 1 to be used as the master disk of an optical disk and is irradiated with light for thermal recording according to the signal to be recorded. Then, etching is performed to form a rugged signal pattern in the phase transition film. The phase transition film essentially consists of germanium and tin with $\text{Ge}_{(1-x)}\text{Sn}_x$ (where $0.1 \leq x \leq 0.5$) composition ratio of atoms.

